	Application No.	Applicant(s)	
	10/807,249	KAWANABE ET AL.	$\langle \omega \rangle$
Notice of Allowability	Examiner	Art Unit	— (M)
	Theresa T. Doan	2814	
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in this or other appropriate communic IGHTS. This application is subjection	s application. If not included ation will be mailed in due cou	ırse. <b>THIS</b>
1. $\boxtimes$ This communication is responsive to <u>03/24/04</u> .			
2. ☑ The allowed claim(s) is/are <u>15-27</u> .			
<ol> <li>Acknowledgment is made of a claim for foreign priority ur</li> <li>a)    ☐ All b) ☐ Some* c) ☐ None of the:</li> </ol>	nder 35 U.S.C. § 119(a)-(d) or (f	).	
<ol> <li>Certified copies of the priority documents have</li> </ol>	e been received.		
<ol><li>Certified copies of the priority documents have</li></ol>	e been received in Application N	0	
<ol><li>Copies of the certified copies of the priority do</li></ol>	cuments have been received in	this national stage application	from the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		eply complying with the requir	ements
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			ICE OF
5. CORRECTED DRAWINGS ( as "replacement sheets") mus	st be submitted.		
(a) ☐ including changes required by the Notice of Draftspers	son's Patent Drawing Review (F	PTO-948) attached	
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date			
(b) including changes required by the attached Examiner' Paper No./Mail Date	s Amendment / Comment or in t	he Office action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			ck) of
<ol> <li>DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT</li> </ol>			∍ the
Attachment(s) 1. ⊠ Notice of References Cited (PTO-892)	5. ☐ Notice of Inform	nal Patent Application (PTO-1	52)
2.  Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summ		
3. Information Disclosure Statements (PTO-1449 or PTO/SB/0	Paper No./Mai 98), 7. ☐ Examiner's Am	I Date endment/Comment	`
Paper No./Mail Date 03/24/05  4. Examiner's Comment Regarding Requirement for Deposit	8. 🛭 Examiner's Sta	tement of Reasons for Allowa	nce
of Biological Material	9. 🗌 Other		

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## Reasons for Allowance

1. Claims 15-27 are allowed.

2. The following is an examiner's statement of reasons for allowance:

The prior art of record fails to disclose all the limitations recited in the independent claim 15. Specifically, the prior art of record fails to disclose a method of manufacturing a semiconductor device, comprising the steps of: connecting the first electrode pads and the second electrode pads with each other through electrically conductive wires which contain gold (Au) as a main component, wherein comprising further the steps of: melting over the first electrode pads one ends of the electrically conductive wires and bonding the resulting melted balls over the first electrode pads; bonding opposite ends of the electrically conductive wires over the second electrode pads; and forming the electrically conductive wires having ball portions formed over the first electrode pads, bonded portions formed over the second electrode pads, and wire portions for connecting the ball portions and the bonded portions with each other, the ball portions being bonded to the first electrode pads through an alloy layer of Al and Au, wherein the step melting over the first electrode pads is carried out in a state in which the temperature of the main surface of the semiconductor chip is not higher than 200°C.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

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accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Theresa T Doan whose telephone number is (571) 272-1704. The examiner can normally be reached on Monday to Thursday from 8:00AM - 6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, WAEL FAHMY can be reached on (571) 272-1705. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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December 22, 2005.

PHAT X. CAO PRIMARY EXAMINER

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